Billet Description for SENIOR ENVIRONMENTAL ENGINEER (CO-04)

MAJOR DUTTES

- A. Meets with Federal, state, municipal, and tribal officials, and community residents relative to environmental monitoring, and the planning, design or design review, troubleshooting, construction, and administration associated with water, wastewater, solid waste and other pollution control facilities to serve Federal facilities, municipalities, and Indian homes and communities.
- B. Corducts field environmental surveys and engineering investigations.
- C. Drafts engineering reports, technical drawings, technical spacifications, and project status reports. Prepares drafts of legal agreements. Prepares requisitions for materials and services. Prepares preliminary project design recommendations.
- D. Represents the Contracting Officer in the administration, inspection, and approval of environmental monitoring or construction contracts.
- E. Reviews/inspects engineering work and construction performed by contractors. Ensures that all work is performed in accordance with approved plans and specifications. Ensures as-built information is reworded accurately and measures quantities for payment. Assists senior program officials in conducting final inspections.
- F. Develops and maintains files containing complete documentation of all project actions from initial development through project completion including financial records and final reports.
- G. Arranges and conducts operation and maintenance training for operators and other project participants. Participates in fluoridation promotion and other aspects of environmental health engineering. Provides technical assistance to Federal agencies, states, tribes and examinities in matters related to environmental health.
- H. May supervise engineers, construction workers and inspectors, tuchnicians, draftsmen, and clerical staff, and prioritizes their wark. Assists supervisor with the coordination of construction activities.

I. EDUCA TION AND EXPERIENCE

- A. E hucation: B.S. Degree in Civil or Environmental engineering from and ABET accredited college or university.
- B. <u>Experience</u>: A minimum of five years total of fundamental engineering experience in environmental monitoring and/or surveying, design or design review, preparation of plans and specifications, and

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Instruction management and inspection is required. A working knowledge of, and experience in, environmental investigations and/or the design and construction of sanitation or other pollution control facilities is required; e.g., water wells, water storage tanks, water treatment and distribution systems, pumping equipment, memage collection and treatment systems, and solid waste disposal operations. Rhowledge of construction safety standards and practices also is required. An Engineer-In-Training (EIT) certificate from any state is required. A current PE (Professional Engineer license) from and state may substitute for two years of experience. For supervisory positions, a minimum of one year of experience (not in addition to five years of professional experience) as a supervisor (technical or non-technical employees) is required. Experience in of:lice management is desired.

II. ACCOUNTABILITY

- A. <u>Positive Contributions to Organization's Mission</u>: Performs a variety of environmental engineering tasks of average technical difficulty without the benefit of close guidance. Routinely assists the supervisor with providing consultation to engineering staff. Efforts are directed toward the environmental monitoring, design, design review, troubleshooting, construction, and operation of large and snall water, sewerage and solid waste systems in urban and scattered, geographically remote locations. Managerial impact is limited to immediate work group.
- B. Consequences of Judgmental Failure: Exercises independent judgment in accomplishing a variety of engineering tasks. Judgment affects productivity, work quality, and timeliness of service. Errors in judgment may result in the loss of substantial investments or efforts and funds and/or could affect the health status of one or more individuals (e.g. failure to enforce safety standards on construction jobsites)

III. SUPER VISORY RESPONSIBILITY:

- A. <u>Number Supervised</u>: Supervises up to six technical/clerical employees and three professional employees engaged in engineering and construction related activities.
- B. | mpact of Direction Given: Directs construction, surveys, engineering
 | tudies and/or repair work; reviews and evaluates quality of work
 | erformance of field office staff, including engineers; exercises
 | complete administrative control over subordinates, and carries out
 | rogram policies.

IV. PERS NAL RESPONSIBILITY

A. (haracter of Direction Received: Assignments are received from the supervisor in terms of defining project locations, objectives, priorities, and deadlines. Independently plans and carries out successive steps; however, assistance with unusual monitoring, construction, operation, and/or maintenance problems in available. Supervisor conducts periodic on-site inspections to assess project

8 diidelines and Originality: Pollows established written guidelines and procedures (environmental monitoring and facility design standards, standard specifications, programmatic requirements and regulations). Often, while overseeing engineering activities in the field, makes independent judgments regarding minor modifications to alement of design or specified work procedure. Uses independent judgment in interpreting and adapting guidelines. However, astablished procedure are referred to the supervisor or Contracting determinations regarding need for major modification or deviation from 5

V. PERS MAL WORK CONTACTS

- > construction activities. Senior managers of other Fe and/or municipal agencies are contacted periodically. contractors/contractor representatives engaged in supervised construction activities. Senior managers of other Federal, State, ogencies, states, tribes and communities, and with Persons Contacted: Principal contacts are with supervisor, or public health professionals, Area/Regional contracting, financessomel management staffs, the public, officials of Federal Principal contacts are with supervisor, other finance,
- lock Contact Purpose: The purpose of most contacts is to coordinate project efforts to interpret technical provisions, and/or to resolve engineering problems. The individuals contacted are usually working toward mutual goals and have basically cooperative attitudes.

CONTINUIN EDUCATION:

- <u>Irofessional Licensure:</u> It is highly recommended that the off take the PE (Professional Engineer) examination when eligible. the officer
- Ä Eupervision/Management. Training: It is highly recommended that formal training/course work be taken in Construction Contracting/Management and Mid-Level